

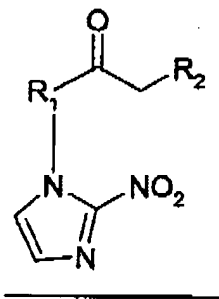
Specification

Please replace the paragraph at page 5, line 12 with the amended paragraph below:

The present invention concerns the preparation of original sulphur-containing precursors as a first intermediate allowing the direct radiolabelling of perfluoroalkyl groups ($-\text{CF}_3$, $-\text{CF}_2$) by $[^{18}\text{F}]$ on substrates equipped with nitrogen-containing functions. This first intermediate is an amino acid derivative which is N-protected by an imido group, e.g., a phthalimido group, or by a synthetically equivalent group and wherein the carboxyl function has been transformed into a dithioester function or a synthetically equivalent persulphurated moiety, obtainable by (a) to (g) of the invention defined in claims 10, 11, 12 and 13. The present invention also concerns the $[^{18}\text{F}]$ -labelled perfluorinated second intermediate, as defined in claims 14, 15, 16 and 17 which is a perfluorinated amino acid derivative which is N-protected by an imido group, e.g., a phthalimido group, or a synthetically equivalent group, obtainable by (a) to (h) of the invention and the $[^{18}\text{F}]$ -labelled perfluorinated third and last intermediate having the formula of a perfluoropropylamine as defined in claims 18, 19, and 20.

Please replace the paragraph at the bottom of page 5 bridging page 6 at line 29 with the amended paragraph below:

According to a first aspect the invention relates to novel $[^{18}\text{F}]$ -radiolabelled compounds having the formula :



wherein R_1 is CH_2 and R_2 is an alkyl group having up to about 6 halogen atoms, wherein said alkyl group has the formula $CHXCX_2CY_3$ where X is halogen or hydrogen and Y is fluorine, e.g., having specific radioactivity of the d comprised between 1 and 30 Ci/mmol, preferably between 1 and 20 Ci/mmol, preferably between 1 and 10 Ci/mmol. Such compounds, e.g., have the formula 2-(2-nitro-1H-imidazol-1-yl)-N-(3,3,3-trifluoropropyl) acetamide ($[^{18}F]$ -EF3) or 2-(2-nitro-1H-imidazol-1-yl)-N-(2,2,3,3,3-pentafluoropropyl) acetamide ($[^{18}F]$ -EF5) as worded in claims 1-4.